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In the Claims:

- 1-3. (Canceled).
- 4. (Currently amended) The isolated nucleic acid of Claim, wherein 1An isolated nucleic acid encoding a functional CATERPILLER 11.3 polypeptide, said isolated nucleic acid eomprises comprising a nucleotide sequence selected from the group consisting of:
- (a) the nucleotide sequence of SEQ-ID-NO:1, SEQ-ID-NO:3, SEQ-ID-NO:5, SEQ-ID-NO:7, SEQ-ID-NO:13, SEQ-ID-NO:17[[,]] or SEQ-ID-NO:19, SEQ-ID-NO:23, SEQ-ID-NO:27, SEQ-ID-NO:33 or SEQ-ID-NO:148:
- (b) <u>a nucleotide sequence having at least 95% sequence similarity to SEQ ID NO:19</u> a nucleotide sequence consisting essentially of a fragment of the nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:13, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:23, SEQ ID NO:27, SEQ ID NO:33 or SEQ ID NO:148, wherein said fragment encodes a functional polypeptide:
- (c) a nucleotide sequence that hybridizes to the complement of the nucleotide sequences of (a) or (b) under stringent hybridization conditions <u>defined by a wash of 50% Formamide, 5X Denhardt's solution, 0.5% SDS and 1X SSPE at 42°C and encodes a functional polypeptide: and</u>
- (d) a nucleotide sequence that differs from the nucleotide sequences of (a),(b) and (c) above due to the degeneracy of the genetic code.

5-15. (Canceled)

- 16. (Currently Amended) An isolated nucleic acid encoding a functional fragment of a CATERPILLER 11.3 polypeptide selected from the group consisting of:
- (a) a functional fragment comprising at least a nucleotide binding domain and/or a leucine-rich repeat of the polypeptide sequence of SEQ ID NO:18 or SEQ ID NO:20
- a functional fragment of an amino acid sequence having at least 95% sequence similarity to (a);

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- (c) a functional fragment comprising at least a nucleotide binding domain and/or a leucine-rich repeat encoded by the nucleotide sequence of SEQ ID NO:17 or SEQ ID NO:19: and
- (d) a functional fragment encoded by a nucleotide acid sequence having at least 95% sequence similarity to (c)

The isolated nucleic acid of Claim 1, wherein said isolated nucleic acid comprises a nucleotide sequence that encodes a functional polypeptide that has at least about 80% amino acid sequence identity to an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:14, SEQ ID NO:14, SEQ ID NO:28, SEQ ID NO:24, SEQ ID NO:28, SEQ ID NO:34, SEQ ID NO:149 and a functional fragment of any of the foregoing.

17-19. (Canceled)

20. (Currently amended) [[A]]An isolated cell comprising the isolated nucleic acid of Claim [[1]]4.

21-26. (Canceled)

- 27. (Withdrawn-Currently amended) A method of modulating the cellular activity of a <u>CATERPILLER 11.3</u> polypeptide <u>encoded by the nucleic acid of claim</u> <u>4selected from the group consisting of Monarch 1, CIAS1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2, and a functional fragment thereof, comprising introducing into a cell a compound that modulates the activity of the polypeptide in an amount effective to modulate the activity of the polypeptide in the cell.</u>
- 28. (Withdrawn) The method of Claim 27, wherein the compound is an isolated nucleic acid encoding the polypeptide.
- 29. (Withdrawn) The method of Claim 27, wherein the compound is selected from the group consisting of an antisense oligonucleotide and a siRNA that targets the nucleic acid encoding the polypeptide.

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- 30. (Withdrawn) The method of Claim 27, wherein the compound is an antibody that binds to the polypeptide.
- 31. (Withdrawn-Currently amended) A method of modulating cellular inflammatory responses, comprising introducing into a cell a compound that modulates the activity of a <u>CATERPILLER 11.3</u> polypeptide <u>encoded by the nucleic acid of claim 4</u>selected from the group consisting of Monarch 1, CIAS1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2, and a functional fragment thereof, said compound introduced in an amount effective to modulate cellular inflammatory responses.
- 32. (Withdrawn) The method of Claim 31, wherein the compound is an isolated nucleic acid encoding the polypeptide.
- 33. (Withdrawn) The method of Claim 31, wherein the compound is selected from the group consisting of an antisense oligonucleotide and a siRNA that targets the nucleic acid encoding the polypeptide.
- 34. (Withdrawn) The method of Claim 31, wherein the compound is an antibody that binds to the polypeptide.
- 35. (Withdrawn-Currently amended) A method of modulating apoptosis, comprising introducing into a cell a compound that modulates the activity of a CATERPILLER 11.3 polypeptide encoded by the nucleic acid of claim 4selected from the group consisting of Monarch 1, CIAS1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2, and a functional fragment thereof, said compound introduced in an amount effective to modulate apoptosis.
- 36. (Withdrawn) The method of Claim 35, wherein the compound is an isolated nucleic acid encoding the polypeptide.
- 37. (Withdrawn) The method of Claim 35, wherein the compound is selected from the group consisting of an antisense oligonucleotide and a siRNA that targets the nucleic acid encoding the polypeptide.

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- 38. (Withdrawn) The method of Claim 35, wherein the compound is an antibody that binds to the polypeptide.
- 39. (Withdrawn-Currently amended) A method of modulating Toll-like receptor activity, comprising introducing into a cell a compound that modulates the activity of a <u>CATERPILLER 11.3</u> polypeptide <u>encoded by the nucleic acid of claim 4selected from the group consisting of Monarch 1, CIAS1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2, and a functional fragment thereof, said compound introduced in an amount effective to modulate Toll-like receptor activity.</u>
- 40. (Withdrawn) The method of Claim 39, wherein the compound is an isolated nucleic acid encoding the polypeptide.
- 41. (Withdrawn) The method of Claim 39, wherein the compound is selected from the group consisting of an antisense oligonucleotide and a siRNA that targets the nucleic acid encoding the polypeptide.
- 42. (Withdrawn) The method of Claim 39, wherein the compound is an antibody that binds to the polypeptide.
- 43. (Withdrawn) The method according to Claim 27, wherein the cell is a cultured cell
- (Withdrawn) The method according to Claim 27, wherein the cell is a cell in vivo.
- 45. (Withdrawn) A method of identifying a compound that binds to a CATERPILLER 11.3 polypeptide encoded by the nucleic acid of claim 4selected from the group consisting of Monarch 1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2, and a functional fragment of any of the foregoing, comprising:

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contacting the polypeptide with a test compound under conditions whereby binding between the polypeptide and the test compound can be detected; and detecting binding between the polypeptide and the test compound.

46. (Withdrawn-Currently amended) A method of identifying a compound that modulates the activity of a <u>CATERPILLER 11.3</u> polypeptide <u>encoded by the nucleic acid of claim 4</u>selected from the group-consisting of Monarch 1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2, and a functional fragment of any of the foregoing, comprising:

contacting the polypeptide with a test compound under conditions whereby modulation of the activity of the polypeptide can be detected; and detecting modulation of the activity of the polypeptide.

47. (Withdrawn-Currently amended) A method of identifying a compound that can modulate inflammatory responses, comprising:

contacting a <u>CATERPILLER 11.3</u> polypeptide <u>encoded by the nucleic acid of claim 4</u>selected from the group consisting of Monarch 1, CIAS1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2 and a functional fragment of any of the foregoing with a test compound under conditions whereby modulation of the activity of the polypeptide can be detected; and

detecting modulation of the activity of the polypeptide, thereby identifying a compound that can modulate inflammatory responses.

48. (Withdrawn-Currently amended) A method of identifying a compound that can modulate apoptosis, comprising:

contacting a <u>CATERPILLER 11.3</u> polypeptide <u>encoded by the nucleic acid of claim 4</u>selected from the group consisting of Monarch 1, CIAS1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2 and a functional fragment of any of the foregoing with a test compound under conditions whereby modulation of the activity of the polypeptide can be detected; and

detecting modulation of the activity of the polypeptide, thereby identifying a compound that can modulate apoptosis.

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49. (Withdrawn-Currently amended) A method of identifying a compound that can modulate the Toll-like receptor pathway, comprising:

contacting a <u>CATERPILLER 11.3</u> polypeptide <u>encoded by the nucleic acid of claim 4</u>selected from the group consisting of Monarch-1, CIAS1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2 and a functional fragment of any of the foregoing with a test compound under conditions whereby modulation of the activity of the polypeptide can be detected; and

detecting modulation of the activity of the polypeptide, thereby identifying a compound that can modulate the Toll-like receptor pathway.

- 50. (Withdrawn) The method of Claim 45, wherein the method is carried out in a cell comprising the polypeptide.
- (Withdrawn) The method of Claim 50, wherein the cell comprises an isolated nucleic acid comprising a nucleotide sequence encoding the polypeptide.
- 52. (Withdrawn) The method of Claim 51, wherein the cell is stably transformed with the isolated nucleic acid.
- 53. (Withdrawn) The method of Claim 45, wherein the method is carried out as a cell-free assay.
- 54. (Withdrawn) The method of Claim 45, wherein the method is carried out in a transgenic non-human mammal comprising an isolated nucleic acid comprising a nucleotide sequence encoding the polypeptide.
- (New) The isolated nucleic acid of Claim 4, wherein said functional CATERPILLER 11.3 polypeptide inhibits NF-κB function.
- 57. (New) The isolated nucleic acid of Claim 16, wherein said CATERPILLER 11.3 functional fragment inhibits NF-κB function.